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30 August 1961

## MEMORANDUM FOR THE RECORD

SUBJECT : System 7 Updating

1. At the present time, System 7 is in storage and has not been used in more than a year; consequently, a general overhaul of the system will be required to restore it to normal operating conditions. The system was originally designed to be installed in J-57 equipped aircraft, and at the present time, the plan is to convert all J-57's to J-75's. The result of this conversion is a lowering of the AC frequency limit to approximately 320 cycles per second as opposed to a former lower limit of 380 cps. This lower AC frequency will require an extensive modification to System 7. To incorporate the modification and perform a general rehabilitation of the system, it should be returned to the contractor for a period of several weeks. After completion of the modification the system must be installed in a J-75 aircraft for flight tests. Concurrently, with the system modification, the aircraft cabling and necessary noise reduction program could be accomplished.

2. The cost of modifying the system and providing technical assistance during flight tests will be approximately \$15,000 - \$25,000. The large dollar spread estimate is due to the uncertainty of the condition of the system. A tech rep could be provided by the contractor for a 2 - 3 month period to instruct appropriate personnel in the maintenance of the system. The cost of such tech rep services is not included in the above cost figure but would approximate \$2,000 per month.

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